		Future Flight D	esign
		2009 Science	
		Core Curricu	lum
Iowa Science			
Grades 3-5 Activity/Lesson	State	Standards	
Activity/Lesson	State	Statidards	Mathematics is used to gather, organize and
Air Transportation			present data and to construct convincing
Problem	IA	SCI.3-5.1.5.1	explanations.
			Students should communicate, critique, and
Air Transportation			analyze their work and the work of other
Problem .	IA	SCI.3-5.1.7.1	students.
			Students should share procedures and
Air Transportation			explanations through various means of
Problem	IA	SCI.3-5.1.7.2	communication.
			The motion of an object can be described by
			its position, direction of motion, and speed.
Aircraft Design		00105054	That motion can be measured and
Problem	IA	SCI.3-5.3.5.1	represented on a graph.
			Changes in speed or direction of motion are
			caused by forces. The greater the force, the
			greater the change in motion. The more
Aircraft Design			massive an object, the less effect a given
Problem	IA	SCI.3-5.3.5.2	force will have in changing its motion.
			5 5
	•	Future Flight D	
		2009 Science	
Iowa Science		Core Curricu	lum
Grades 6-8			
Activity/Lesson	State	Standards	
Addivity/L033011	Otate	Otaridards	Students formulate questions, design
			investigations, execute investigations,
			interpret data, use evidence to generate
			explanations, propose alternative
Air Transportation			explanations, and critique explanations and
Problem	IA	SCI.6-8.1.2.4	procedures.
			The use of tools and techniques, including
			computers, will be guided by the questions
			asked and the investigations students
			design. Students should be able to access,
Air Tropoportation			gather, store, retrieve, and organize data,
Air Transportation Problem	IA	SCI.6-8.1.4.1	using computer hardware and software designed for these purposes.
FIODICIII	IA	301.0-0.1.4.1	Mathematics is used to gather, organize and
Air Transportation			present data and to construct convincing
Problem	IA	SCI.6-8.1.5.1	explanations.
		220 0.10.1	Students should be able to review data from
			an experiment, summarize the data, and
Air Transportation			form a logical argument between cause and
Problem	IA	SCI.6-8.1.7.2	effect relationships.

	methods.
55.05 51.1151.1	The motion of an object can be described by
	its position, direction of motion, and speed.
	That motion can be measured and
SCI.6-8.3.3.1	represented on a graph.
SCI 6-8 3 3 3	If more than one force acts on an object along a straight line, then the forces will reinforce or cancel one another, depending on their direction and magnitude. Unbalanced forces will cause changes in speed or direction of an object's motion.
	SCI.6-8.1.9.1 SCI.6-8.3.3.1